

ABSTRACT OF THE DISCLOSURE

A fuel supplying apparatus for maintaining a stable supply of a mixed water-methanol solution while preventing water from freezing in a cold climate, and for immediately supplying a mixed water-methanol gas that has a composition which is outside of the high-rate reaction region during the starting/stopping operation of the reformer when the control tends to be unstable. The methanol reforming apparatus that generates a hydrogen-rich gas by reacting a mixed gas of water, methanol and air on a catalyst is supplied with the fuel from a fuel supplying apparatus comprising a mixed water-methanol solution tank wherein the molar ratio of water and methanol used for reforming is controlled to a predetermined value, a mixed water-methanol solution tank wherein the molar ratio of water and methanol is controlled to 4.6 or higher, and a switching means that switches the mixed water-methanol solution tank used as a fuel source according to the conditions of operation of the methanol reforming apparatus.